## Hawaii - 50 m Wind Power 157° 156° 155° **MOLOKAI** Wind Power Classification Wind Speed<sup>a</sup> Wind Wind Power Wind Speed a Resource Density at 50 m at 50 m at 50 m Power Potential 21° Kalaupapa Class W/m<sup>2</sup> m/s Kahului mph Lahaina Poor 0 - 2000.0 - 5.60.0 - 12.5 200 - 300 12.5 - 14.3 Lanai City Marginal 5.6 - 6.4 2 **MAUI** 3 Fair 300 - 400 6.4 - 7.014.3 - 15.7 Good 400 - 500 7.0 - 7.5 15.7 - 16.8 LANAI 500 - 600 16.8 - 17.9 Excellent 7.5 - 8.0Outstanding 600 - 800 8.8 - 0.8 17.9 - 19.7 Superb > 800 > 8.8 > 19.7 **KAHOOLAWE** <sup>a</sup>Wind speeds are based on a Weibull k of 2.0. The Weibul k may vary from 1.5 to 3.0 depending on location. 160° 159° Kamuela 20° **KAUAI** Kapaa Mountain Kailua Hanamaulu 22° View Kona Puuwai\_ Lihue Kekaha Captain Kalahoe Cook **OAHU NI'IHUA** Haleiwa **HAWAII** Kaneole 19° Waianae The annual wind power estimates for this map were produced by 159° 158° 156° 155° TrueWind Solutions using their Mesomap system and historical 50 100 Kilometers weather data. It has been validated 75 Miles 25 50 with available surface data by NREL and wind energy meteorological U.S. Department of Energy Hawaii Homelands consultants. National Renewable Energy Laboratory 22-JUL-2004 2.1.1